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IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

1. **Portable real-time protocols to make real-time communications affordable**
   Barned, R.M.; Richards, R.J.;
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   Volume 2, 7-10 Oct. 2002 Page(s):1183 - 1188 vol.2
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2. **Frequency and time slot assignment algorithms for FDMA/TDMA non-GEO MSS with multiple gateway Earth stations**
   Konishi, S.; Nomoto, S.; Mizuike, T.;
   Communications, 1999. ICC '99. 1999 IEEE International Conference on
   Volume 2, 6-10 June 1999 Page(s):775 - 780 vol.2
   Digital Object Identifier 10.1109/ICC.1999.765379
   AbstractPlus | Full Text: PDF(520 KB) IEEE CNF
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   Hor, C.-L.; Watson, S.J.; Majithia, S.;
   Probabilistic Methods Applied to Power Systems, 2006. PMAPS 2006. International Conference on
   11-15 June 2006 Page(s):1 - 6
   Digital Object Identifier 10.1109/PMAPS.2006.360237
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   Devalla, B.; Bettati, R.; Zhao, W.;
   Real-Time Computing Systems and Applications, 1999. RTCSA '99. Sixth International Conference on
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   d'Halluin, Y.; Forsyth, P.A.; Vetzal, K.R.;
   Networking, IEEE/ACM Transactions on
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   Digital Object Identifier 10.1109/TNET.2002.801416
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6. **Benefits of p-cycles in a mixed protection and restoration approach**
Blouin, F.J.; Sack, A.; Grover, W.D.;
Design of Reliable Communication Networks, 2003. (DRCN 2003). Proceedings. Fourth International Workshop on
19-22 Oct. 2003 Page(s):203 - 210
Digital Object Identifier 10.1109/DRCN.2003.1275358
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Elwalid, A.; Mitra, D.; Saniee, I.; Widjaja, I.;
Lightwave Technology, Journal of
Volume 21, Issue 11, Nov. 2003 Page(s):2828 - 2838
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Mirrokni, V.S.; Thottan, M.; Uzunalioglu, H.; Paul, S.;
INFOCOM 2004. Twenty-third AnnualJoint Conference of the IEEE Computer and Communications Societies
Volume 1, 7-11 March 2004 Page(s):
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Brinzanescu, O.; Schnitter, S.;
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Krile, S.;
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Krile, S.; Kos, M.;
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Trebst, R.; Wohlfarth, H.;
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Shulman, A.; Vachani, R.;
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Lee, C.Y.; Kang, H.G.;
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Patten, K.; Passerini, K.;
Wireless Telecommunications Symposium, 2005
April 28-30, 2005 Page(s):225 - 233
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Terms used: **sonet planning tool** and **time** and **demand** Found **104,330** of **207,474**

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1 Network planning with a performance-prediction tool
Stephen D. Post
May 1999 **International Journal of Network Management**, Volume 9 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(172.80 KB) Additional Information: full citation, abstract, index terms

A new type of tool facilitates network engineering by combining the speed and practicality of mathematical analysis with a graphic user interface that is customized for network modeling. Copyright © 1999 John Wiley & Sons, Ltd.

2 Distributed partial-express routing of broad-band transport network demands
M. H. MacGregor, Wayne D. Grover
December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6
Publisher: IEEE Press
Full text available: pdf(139.55 KB) Additional Information: full citation, references, index terms

Keywords: communication system routing, multiplexing, optical communication terminals, optimization methods

3 High availability path design in ring-based optimal networks
Wayne D. Grover
August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4
Publisher: IEEE Press
Full text available: pdf(308.91 KB) Additional Information: full citation, references, index terms

4 Global optimization of SDH networks: a practical application
Dirk Beckmann, Jörn Thurow
January 2003 **International Journal of Network Management**, Volume 13 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(129.56 KB) Additional Information: full citation, abstract, references, index terms

We describe in this paper how the backbone network of a major German telecommunication company has been globally optimized using the so-called branch-and-bound algorithm. The described optimization approach enables significant reductions of expenses for leased lines compared to manually derived planning results. This gain achieved by the presented optimization approach is also demonstrated by the comparison with a heuristic algorithm which is used for the simulation of a human network planning

p ...

5 A quantitative measure for telecommunications networks topology design

Nicholas F. Maxemchuk, Iradj Ouveysi, Moshe Zukerman

August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4

Publisher: IEEE Press

Full text available: pdf(588.34 KB) Additional Information: full citation, abstract, references, index terms, review

This paper proposes a new measure for network performance evaluation called topology lifetime. The measure provides insight into which one of a set of topologies is likely to last the longest before more capacity must be installed. The lifetime measure is not single valued, but considers growth as a function of a set of demand shifts (perturbation). One network may be better able to support a uniform growth in the traffic, while another may support more growth when unexpected shifts in the load ...

Keywords: dense wavelength division multiplexing (DWDM), linear programming, network topology, telecommunications

6 Passive measurements: Pop-level and access-link-level traffic dynamics in a tier-1 POP

Supratik Bhattacharyya, Christophe Diot, Jorjeta Jetcheva

November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement IMW '01**

Publisher: ACM Press

Full text available: pdf(3.31 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study traffic demands in an IP bacbkone, identify the routes used by these demands, and evaluate traffic granularity levels that are attractive for improving the poor load balancing that our study reveals. The data used in this study was collected at a major POP in a commercial Tier-1 IP backbone. In the first part of this paper we ask two questions. What is the traffic demand between a pair of POPs in the backbone? How stable is this demand? We develop a methodology that combi ...

7 National high performance computer technology act: SIGGRAPH and nationl high-tech public policy issues

D. J. Cox

August 1989 **ACM SIGGRAPH Computer Graphics**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(2.32 MB) Additional Information: full citation, index terms

8 Reception and posters: Capacity planning tool for streaming media services

Ludmila Cherkasova, Wenting Tang

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03**

Publisher: ACM Press

Full text available: pdf(439.56 KB) Additional Information: full citation, abstract, references, index terms

The goal of the proposed capacity planning tool is to provide the best cost/performance configuration for support of a known media service workload. There are two essential components in our capacity planning tool: *i)* the capacity measurements of different h/w and s/w solutions using a specially designed set of media benchmarks and *ii)* a media service workload profiler, called *MediaProf*, which extracts a set of quantitative and qualitative parameters characterizing the servi ...

Keywords: SLAs, capacity planning, measurements, media server benchmarks, media server capacity, workload profiling

9 Draft report of the Federal Internetworking Requirements Panel, and selected responses

Diane Fountaine
April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(4.15 MB) Additional Information: full citation, index terms

10 Two case studies of open source software development: Apache and Mozilla

July 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(373.10 KB) Additional Information: full citation, abstract, references, citings, index terms, review

According to its proponents, open source style software development has the capacity to compete successfully, and perhaps in many cases displace, traditional commercial development methods. In order to begin investigating such claims, we examine data from two major open source projects, the Apache web server and the Mozilla browser. By using email archives of source code change history and problem reports we quantify aspects of developer participation, core team size, code ownership, productivit ...

Keywords: Apache, Mozilla, Open source software, code ownership, defect density, repair interval

11 Distributing a chemical process optimization application over a gigabit network

Robert L. Clay, Peter A. Steenkiste
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**
Publisher: ACM Press
Full text available: pdf(418.23 KB) html(2.65 KB) Additional Information: full citation, abstract, references, citings, index terms

We evaluate the impact of a gigabit network on the implementation of a distributed chemical process optimization application. The optimization problem is formulated as a stochastic Linear Assignment Problem and was solved using the Thinking Machines CM-2 (SIMD) and the Cray C-90 (vector) computers at PSC, and the Intel iWarp (MIMD) system at CMU, connected by the Gigabit Nectar testbed. We report our experience distributing the application across this heterogeneous set of systems and present mea ...

Keywords: chemical process optimization, distributed computing, heterogeneous computing, gigabit networks, stochastic linear assignment problem, optimal resource allocation

12 ATM: retrospective on systems legacy: A retrospective view of ATM

Charles Kalmanek
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(222.98 KB) Additional Information: full citation, abstract, references, index terms

ATM was the focus of active research and significant investment in the early to mid 1990's. This paper discusses several visions for ATM prevalent at the time, and analyzes how ATM evolved during this period. The paper also considers the implications of this history for current connection-oriented technologies, such as optical transport networks and MPLS.

Keywords: ATM, MPLS, flow switching, transport networks

13 Standards: when is it too much of a good thing?

Robert J. Aiken, John S. Cavallini
June 1994 **StandardView**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(1.42 MB) Additional Information: full citation, references, index terms

14 GraphicsNet '95: integrated voice, video, graphics and data network using asynchronous transfer made (ATM)

Marke Clinger
February 1996 **ACM SIGGRAPH Computer Graphics**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

Every year demonstrations at the SIGGRAPH conference push the envelope in state-of-the-art graphics. In 1995, SIGGRAPH also pushed the envelope in networking by deploying a conference-wide, production ATM network. GraphicsNet, the conference network, consisted of 400 Ethernet-over-ATM connections and 100 directly attached ATM devices. GraphicsNet was one of the largest ATM backbone networks deployed to date. Using the latest hardware and software available, GraphicsNet provided a switched intern ...

15 Restoration strategies and spare capacity requirements in self-healing ATM networks

Yijun Xiong, Lorne G. Mason
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1
Publisher: IEEE Press
Full text available: pdf(402.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: ATM, heuristics, linear programming, network design, network reliability/survivability, self-healing

16 Extending performance approaches to new application domains: Real-time UML-based performance engineering to aid manager's decisions in multi-project planning

A. Bertolino, E. Marchetti, R. Mirandola
July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**
Publisher: ACM Press
Full text available: pdf(133.82 KB) Additional Information: full citation, abstract, references, citings

We investigate the usage of software performance engineering to aid the project manager in making sound, reliable predictions in software development, and in optimizing the utilization of resources (typically the people). We assimilate the project teams to the processing elements of a performance model, and their activities to the tasks to be accomplished within established time intervals. The proposed methodology uses as the manager's interface a subset of Real-Time UML, the recently adopted OM ...

Keywords: product release, project management, real-time UML, software performance engineering

17 Web system-oriented performance: Capacity planning tools for web and grid environments

Sugato Bagchi, Eugene Hung, Arun Iyengar, Norbert Vogl, Noshir Wadia
October 2006 **Proceedings of the 1st international conference on Performance evaluation methodolgies and tools valuetools '06**
Publisher: ACM Press
Full text available: pdf(453.91 KB) Additional Information: full citation, abstract, references, index terms

A key aspect in managing resources for customer sites is to predict and assess the load associated with a site in order to figure out how best to allocate resources for the site over time and to efficiently schedule tasks. The cost associated with the site and return on investment are also key parameters. This paper describes work we have done in developing tools for answering these critical questions. The tools use both analytical models and discrete event simulations to predict performance and ...

Keywords: capacity planning, grid computing, performance modeling, web performance

18 Optimal capacity placement for path restoration in STM or ATM mesh-survivable networks
Rainer R. Iraschko, M. H. MacGregor, Wayne D. Grover
June 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 3
Publisher: IEEE Press
Full text available: pdf(263.51 KB) Additional Information: full citation, references, citings, index terms

Keywords: capacity placement, mesh restoration, survivable networks

19 Annotated bibliography on network management
Simon Znaty, Jean Sclavos
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, index terms

This annotated bibliography covers the various aspects of network management. It contains a list of papers being ordered according to the four network management models, namely, functional, architectural, informational and relational.

20 The cluster compiler—a tool for the design of time-triggered real-time systems
Hermann Kopetz, Roman Nossal
November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95**, Volume 30 Issue 11
Publisher: ACM Press
Full text available: pdf(869.29 KB) Additional Information: full citation, abstract, references, citings, index terms

An off-line planning tool that supports the programmer in developing his real-time application is mandatory in the design of time-triggered real-time systems. This paper describes the architecture and the functions of such a tool, the Cluster Compiler, that is in development at our institute. We emphasize on the principle of a strict separation of the local from the global parts of a distributed system and on the consequences for the structure of the design tool arising from this principle.

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An optimization problem related to balancing loads on **SONET** rings
S Cosares, I Saniee - Telecommunication Systems, 1994 - Springer
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Survivable **SONET** networks-design methodology - all 4 versions »
OJ Wasem, TH Wu, RH Cardwell - Selected Areas in Communications, IEEE Journal on, 1994 - ieeexplore.ieee.org
... a methodology for the strategic **planning** of survivable ... The software system determines strategic locations and ring ... 1 diverse protection and **SONET** self-healing ...
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Transport network architectures in an IP world - all 9 versions »
RD Doverspike, SJ Phillips, JR Westbrook - INFOCOM 2000. Nineteenth Annual Joint Conference of the IEEE ..., 2000 - ieeexplore.ieee.org
... engineering **tools** are not yet in place, standard failure recovery speed is greatly infericir to that offered by **SONET** rings, voice-over-IP is still in tlic ...
Cited by 21 - Related Articles - Web Search - BL Direct

Optimal Load Balancing on **Sonet** Bidirectional Rings - all 3 versions »
YS Myung, HG Kim, DW Tcha - Operations Research, 1997 - JSTOR
... however, is only a subproblem within the comprehensive **planning tool**, which has ... be overvalued when designing a real-world large-scale **SONET** broadband network. ...
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[CITATION] Design and **planning** of transport networks based on SDH/**SONET** and WDM optimcal networks: methods, ...
C Blaizot, I Cerutti, A Fumagalli, M Tacca, L ... - Optical Networks Magazine, 2000
Cited by 4 - Related Articles - Web Search

Planning and deploying a **SONET**-based metro network
M To, J McEachern, BN Res, O Ottawa - LTS, IEEE [see also IEEE LCS], 1991 - ieeexplore.ieee.org
... **planning tools** that will assist with the transition to the tar- get network. This **tool** would identify asyn- chronous systems nearing exhaust, propose **SONET** ...
Cited by 2 - Related Articles - Web Search

SONET implementation - all 2 versions »
YC Ching, HS Say - Communications Magazine, IEEE, 1993 - ieeexplore.ieee.org
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J Akkanen, JK Nurminen - The Journal of Systems & Software, 2001 - Elsevier
... Our experience is that a **planning tool** supporting the user in ... Nokia NPS/10is a transmission network **planning** system that ... of a set of simple **tools**, or commands ...
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TH Wu, JC McDonald, TP Flanagan, KI Sato - Selected Areas in Communications, IEEE Journal on, 1994 - ieeexplore.ieee.org
... intend to identify useful theory and **tools**, and discuss ... and, in particular, the viability of **SONET** DCS's ... thus, may be used as a network growth **planning tool**. ...
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